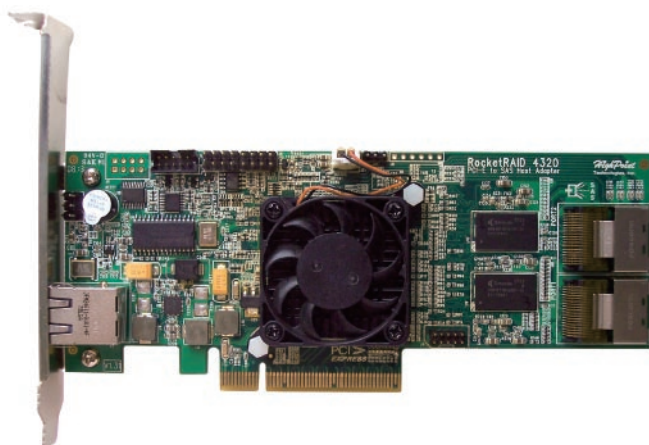


# RocketRAID 4320

## 8 Channel PCI-Express x8 SAS Hardware RAID Controller



### Host Adapter Architecture

- Intel IOP348 (1.2GHz)
- Up to 512MB DDR-II Memory
- PCI-Express x8
- 2 internal mini-SAS/SATA 3Gb/s Device Port
- Up to 8 SAS/SATA Hard Drives
- NCQ (Native Command Queuing)
- NVRAM
- Battery Backup Unit Ready (BBU-03)
- Low Profile

### Advance RAID Features

- Support RAID 0, 1, 3, 5, 6, 10, 50 and JBOD
- Multiple RAID support
- Multiple logical drive support
- BIOS booting support
- Online array roaming
- Automatic drive (insert / removal) detection
- Automatic RAID rebuild
- 64bit LBA support greater than 2TB per volume
- S.M.A.R.T (Early Warning System)
- Staggered Spinup with user selection in BIOS
- TerabyteGuard™ for data protection and reliability
- Bad sector repair and remapping to reduce dropped drives
- (MAID) spin down drives when array is idle

### Array Monitors, Alerts and Indicators

- Hard Drive LED indicators (Activity and Failed)
- SMTP for Email Notification
- SNMP for remote management
- Ethernet board for OBM (Out of Band Management)
- NTP (Network Time Protocol)
- Alarm / Buzzer alert for drive / array failure
- Enclosure management support I2C and SGPIO
- Intelli-VRM™ (Intelligent Virtual RAID Management)

### RAID Management

- Online Capacity Expansion (OCE) and Online RAID Level Migration (ORLM)
- Quick and Background initialization for instant RAID configuration
- Write Back and Write Through support
- API Library for customization
- CLI (Command Line Interface)
- Web GUI RAID management (local and remote monitoring)
- SHI (Storage Health Inspector – Drive analysis from S.M.A.R.T)

### Operating System Support

- Windows (2000, XP, x64, 2003/2008 Server, Vista (32 and 64) bit)
- Linux (Fedora Core, Red Hat Enterprise Linux / CentOS, SuSE)
- Mac OS X 10.4.x and above
- FreeBSD (1-6) binary support – Native support in 7.0
- GLP Licensed driver into Linux kernel 2.6.25

# RocketRAID 4320

## 8 Channel PCI-Epress x8 IOP Based SAS RAID Controller

### ROCKETRAID 4320 HOST ADAPTER

The HighPoint RocketRAID 4320 is the world's fastest internal SAS RAID controller utilizing Intel IOP348 1.2GHz processor.

The RocketRAID 4320 is the latest product in storage technology, leveraging the storage performance in SAS and SATA II supporting the fastest available throughput while supporting enterprise level features such as Native Command Queuing (NCQ), staggered drive spin-up and SAF-TE (I2C) and SGPIO enclosure management support.

### HighPoint RAID Management

HighPoint RAID Management software offers a user friendly interface to create, manage and maintain your storage solutions. Email notification and remote are some of the advance features that the RAID Management software has to offer.

### Intel 80348 I/O Processor and SDRAM

The RocketRAID 4320 SAS RAID Controller has an intergrated Intel I/O processor for hardware RAID parity calculations. With the new I/O processor the system CPU is free to perform other important tasks. There is also up tp 256MB of DDR SDRAM with ECC protection on the RocketRAID 4320 SAS RAID Controller for improved performance.

### COMPREHENSIVE OS SUPPORT

HighPoint offers the broadest range of support for all major operating systems to ensure OS and hardware server compatibility. Drivers are available for all major operating systems, including Windows , Linux, Mac OS X and FreeBSD. GPL Licensed Linux drivers into main Linux kernel help customers easily install and configure the RocketRAID 4320.

### PHYSICAL SPECIFICATIONS

Size: (167.0mm x 68.0mm) 6.75"L x 2.63"W

EMI : FCC Part 15 Class B and CE

### Thermal and Atmospheric Characteristics:

Work Temperature Range : +5°C ~+ 55°C

Relative Humidity Range : 5% ~ 60% non condensing

Storage Temperature : ~20 ~ 80°C

MTBF: 920,585 Hours

### Electrical Characteristics:

PCI-e : 12 V 3.3V

Power: 12V - 15W

### RocketRAID 4320 Specification

Host Side Interface	PCI-e x8
Device Interface	SAS or SATA II
Number of Channels	2 internal mini-SAS Channels
Supported RAID Levels	RAID 0, 1, 5, 6,10, and JBOD
Operating Systems Support	Windows, Linux, Mac OS X and FreeBSD
RAID Management Tool	Web based RAID Management Software and CLI
Some Highlighted Features	Hot swap/hot spare 64bit LBA for over 2TB partition support SMART hard drive monitoring SMTP support for email notification OCE/ORLM Automatic RAID Rebuild Online Array Roaming

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three limited warranty information